



82833RLW
Customer No. 01333

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Shoupu Chen, et al

METHOD FOR AUTOMATICALLY
LOCATING EYES IN AN IMAGE

Serial No. 09/884,373

Filed 19 June 2001

Group Art Unit: 2625

Examiner: John B. Strege

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Anita Marie Barker
Anita Marie Barker

August 30, 2004
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LETTER TO THE OFFICIAL DRAFTSPERSON

Enclosed are 14 sheets of formal drawings depicting
Figure(s) 1-15. Please substitute these drawings for those currently on file in the
subject application.

The Commissioner is hereby authorized to charge any fees in
connection with this communication to Eastman Kodak Company Deposit
Account No. 05-0225. **A duplicate copy of this letter is enclosed.**

Respectfully submitted,

Robert Luke Walker
Attorney for Applicant(s)
Registration No. 30,700

Robert Luke Walker/amb
Telephone: (585) 588-2739
Facsimile: (585) 477-1148

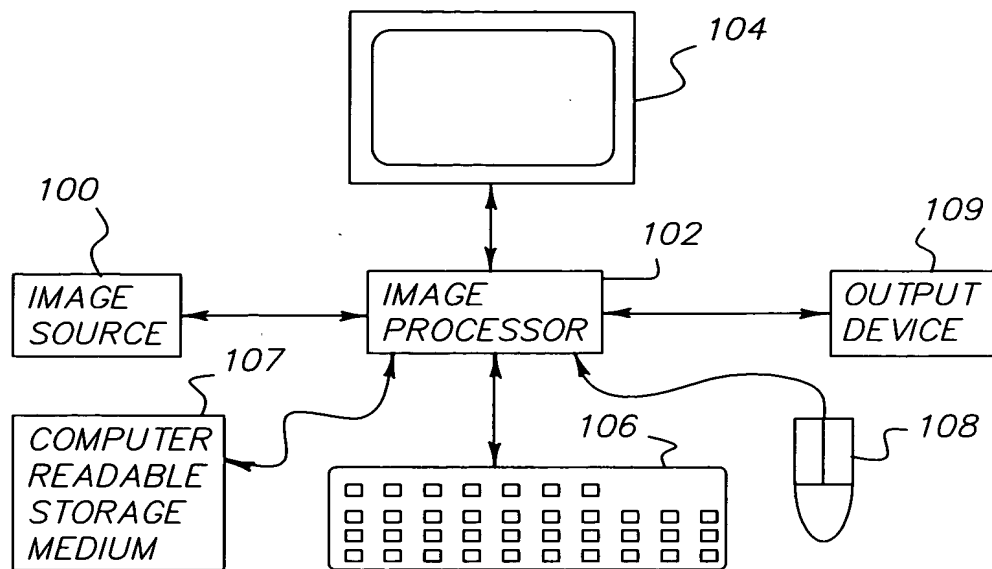


FIG. 1

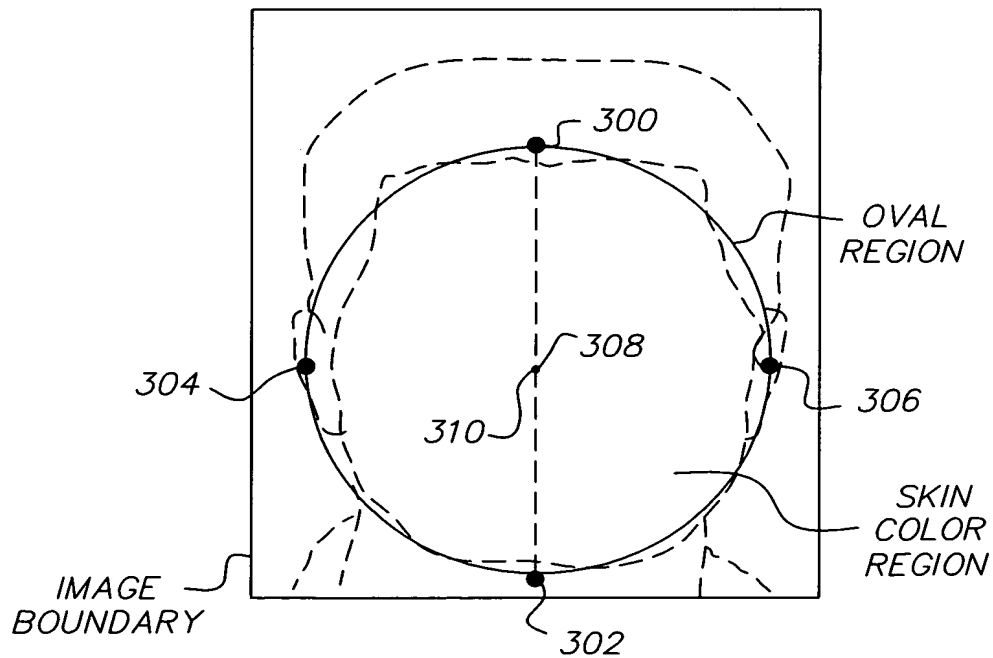


FIG. 3

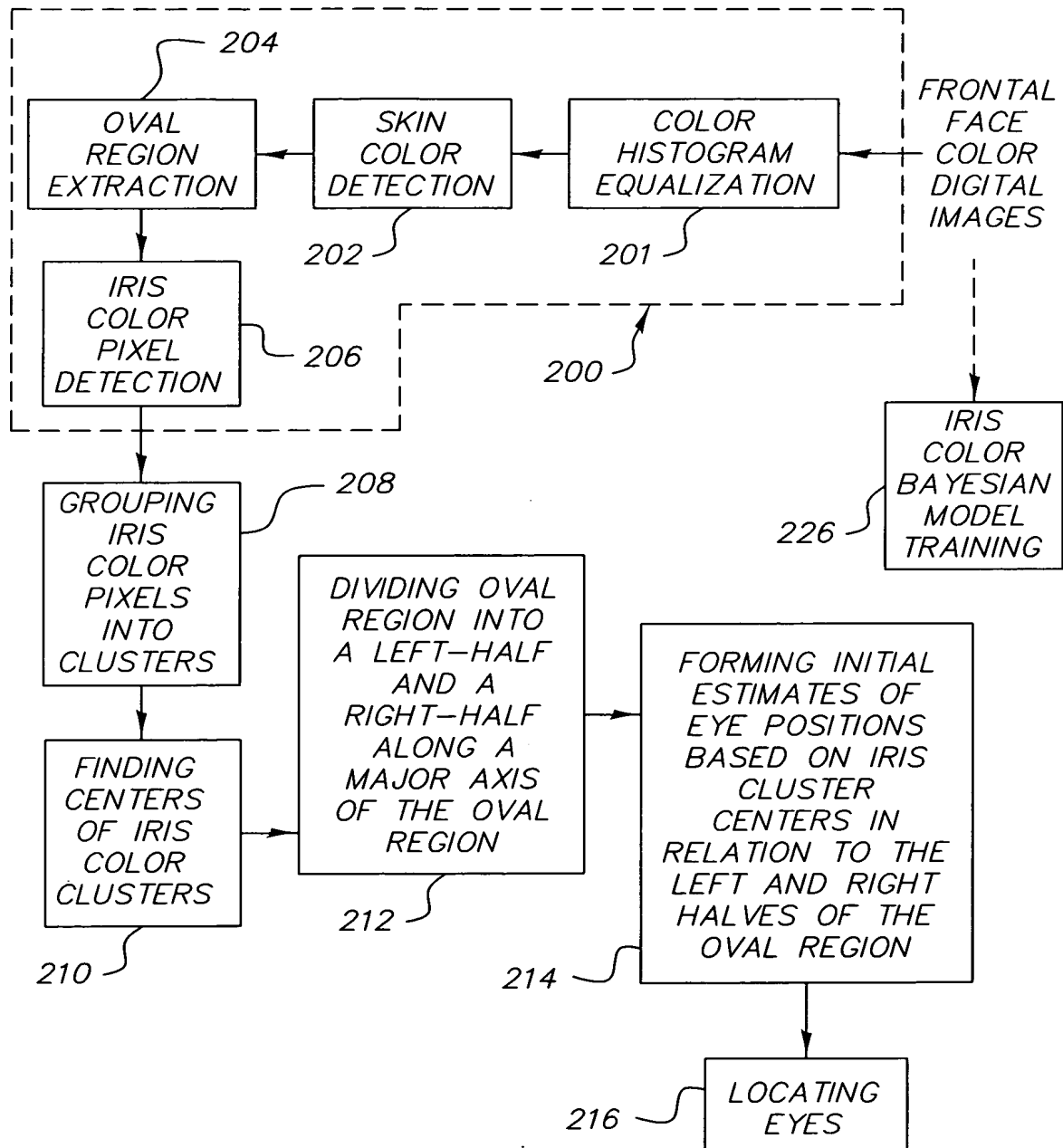


FIG. 2

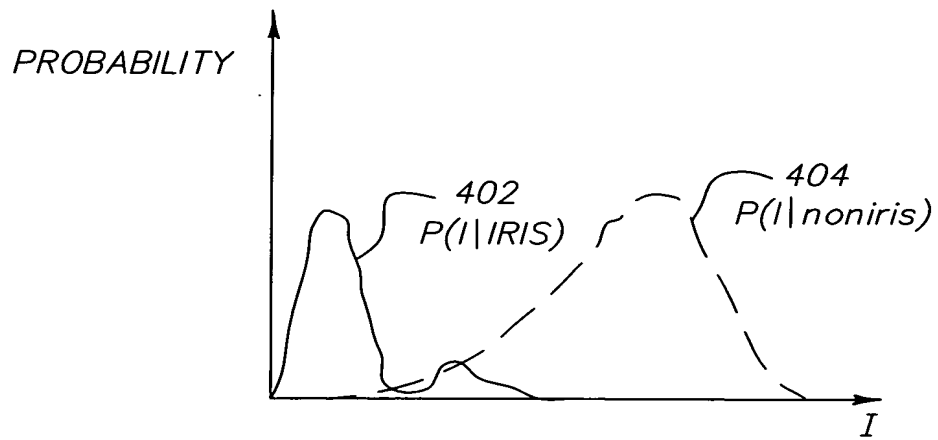


FIG. 4

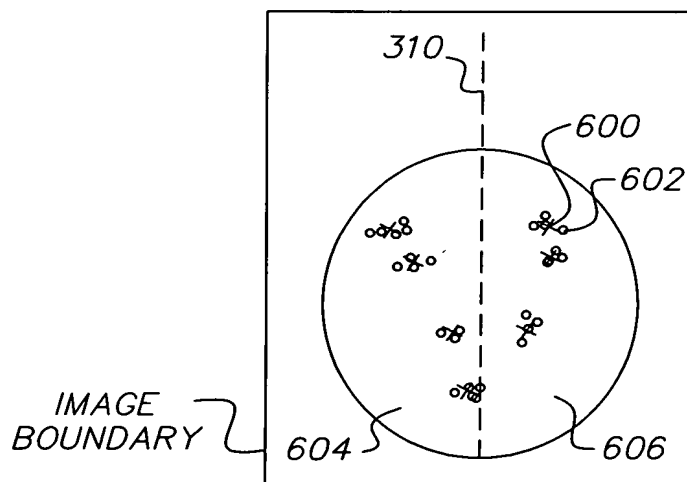


FIG. 6

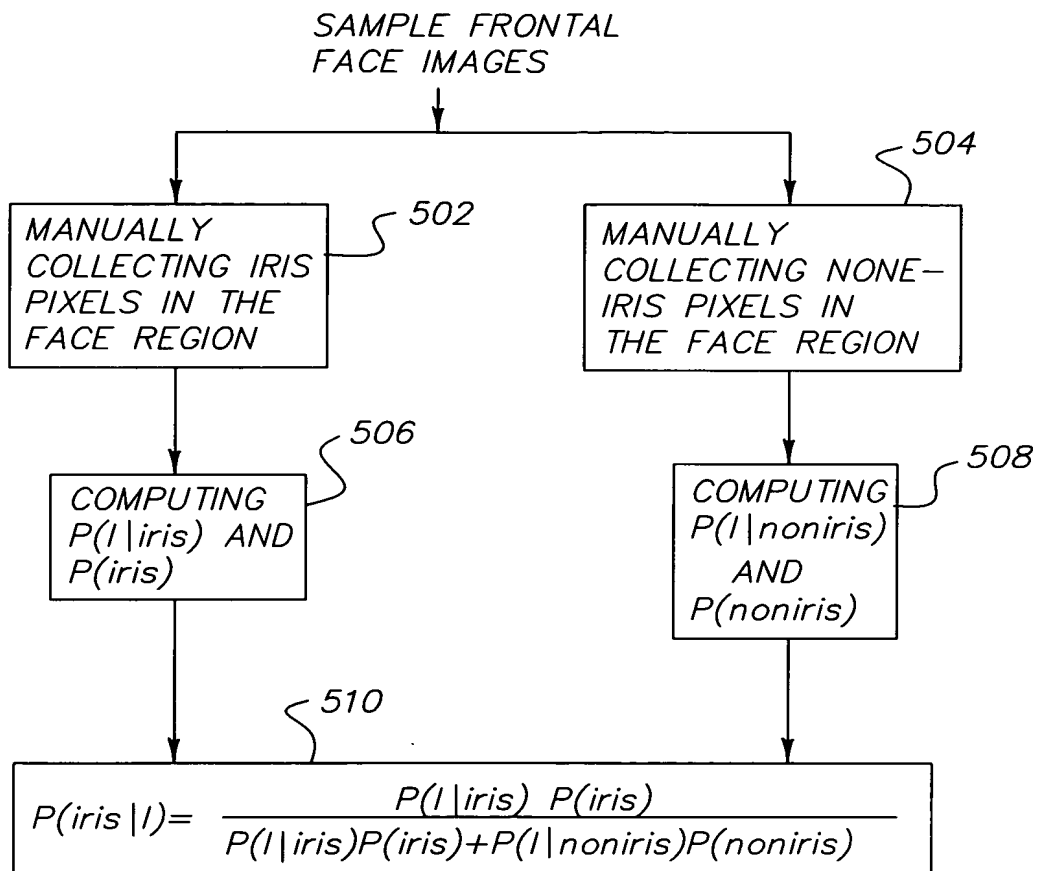


FIG. 5



FIG.
7a1

FIG.
7a2

FIG. 7a

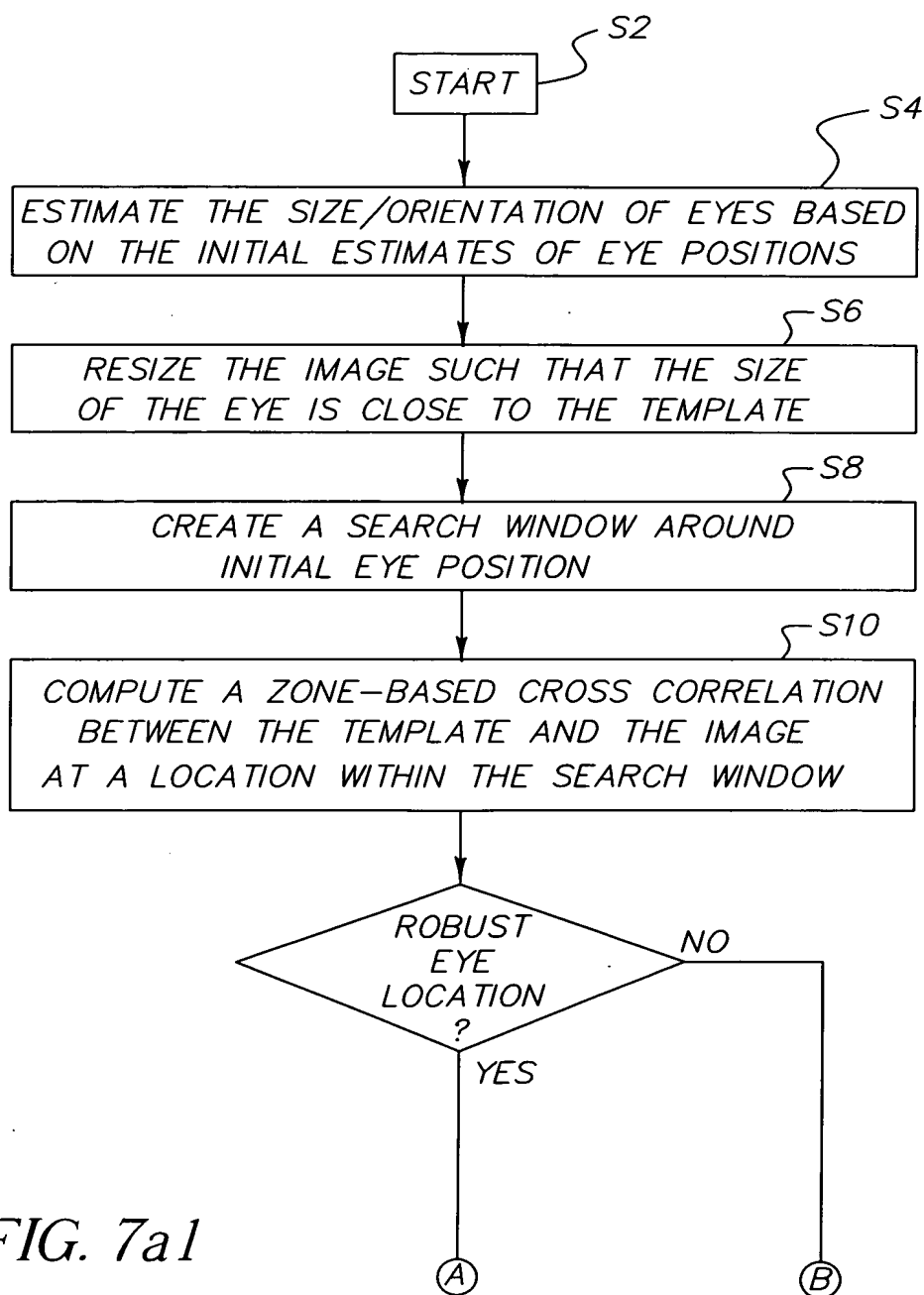


FIG. 7a1

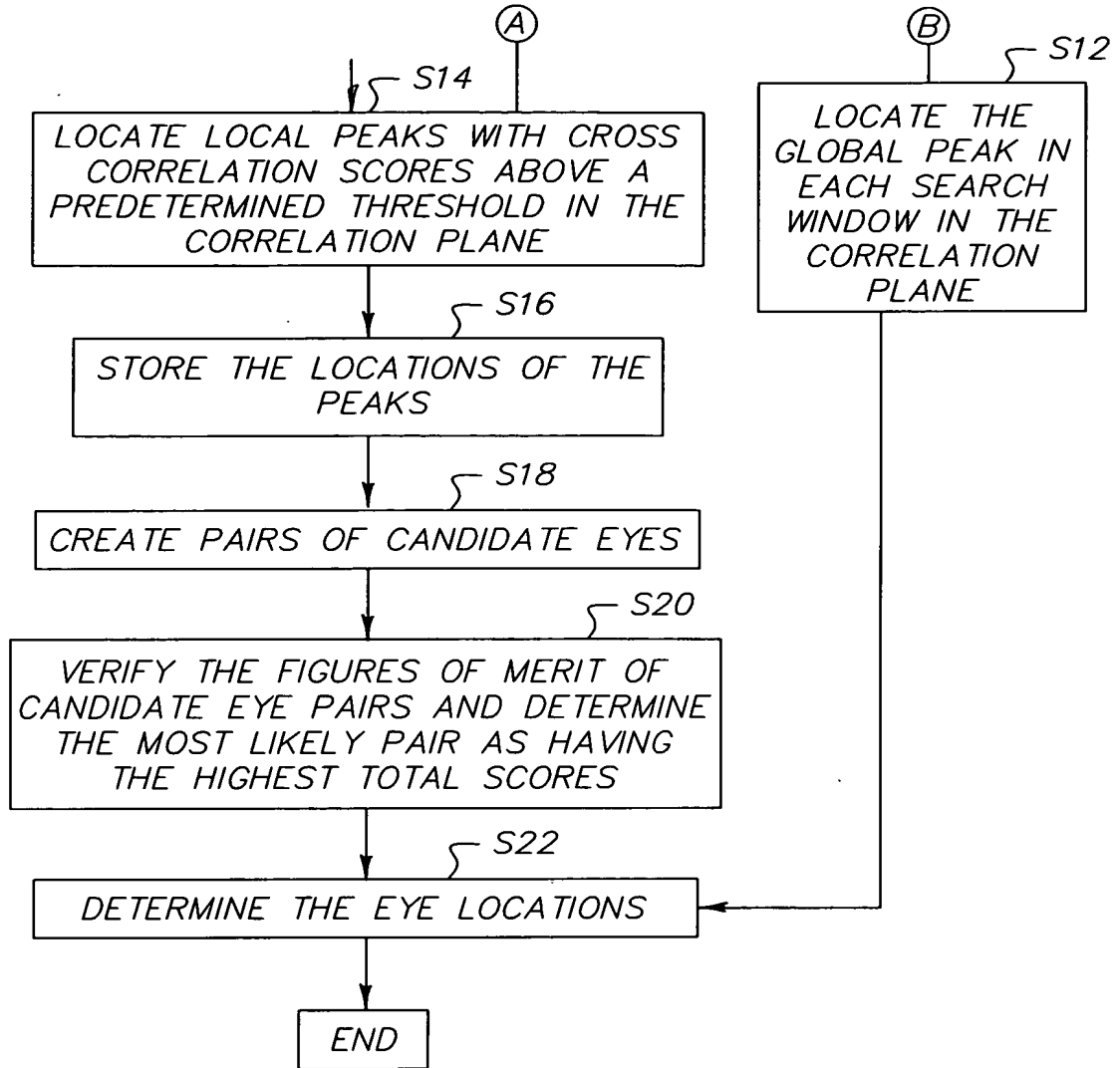


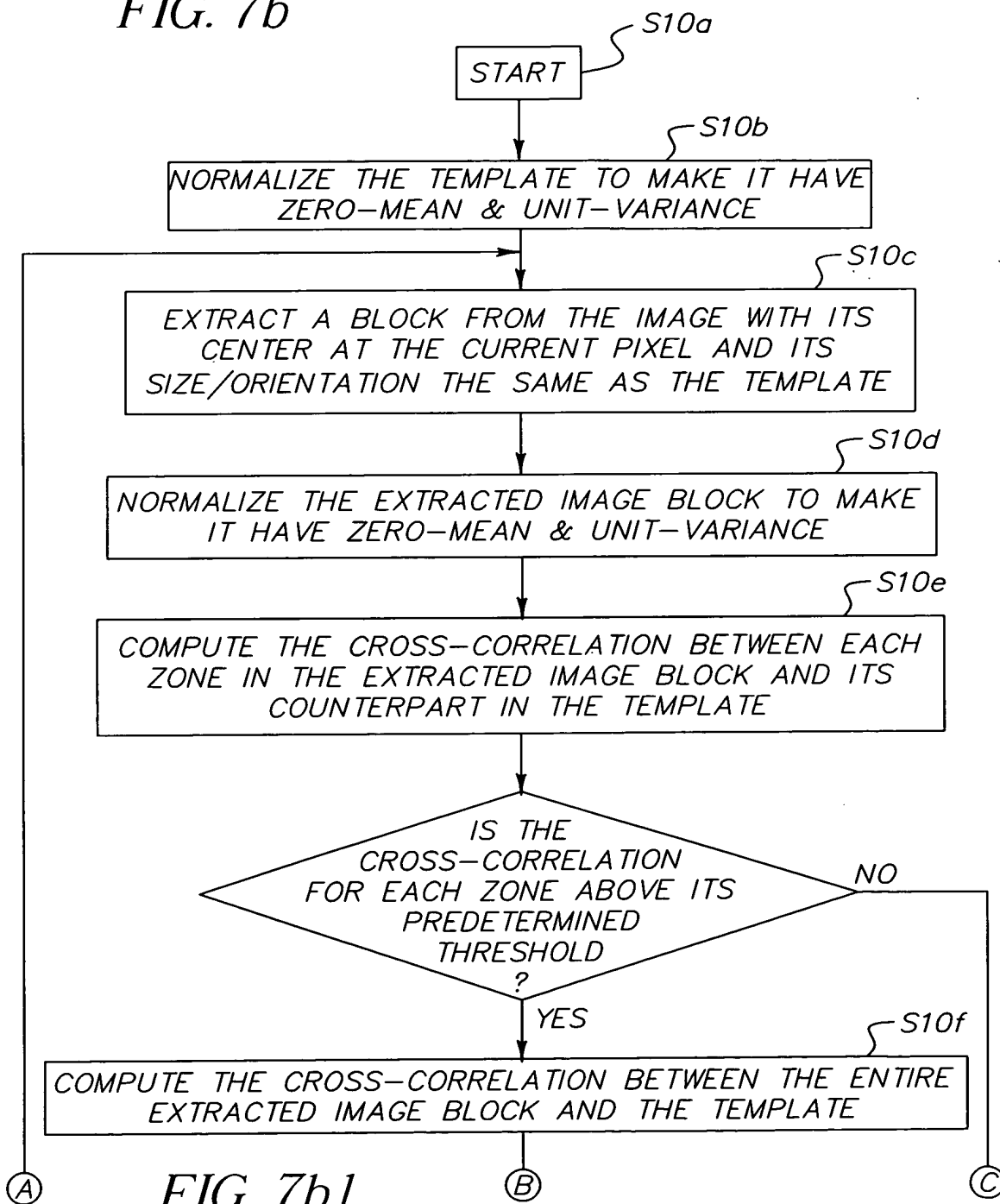
FIG. 7a2



FIG.
7b1

FIG.
7b2

FIG. 7b



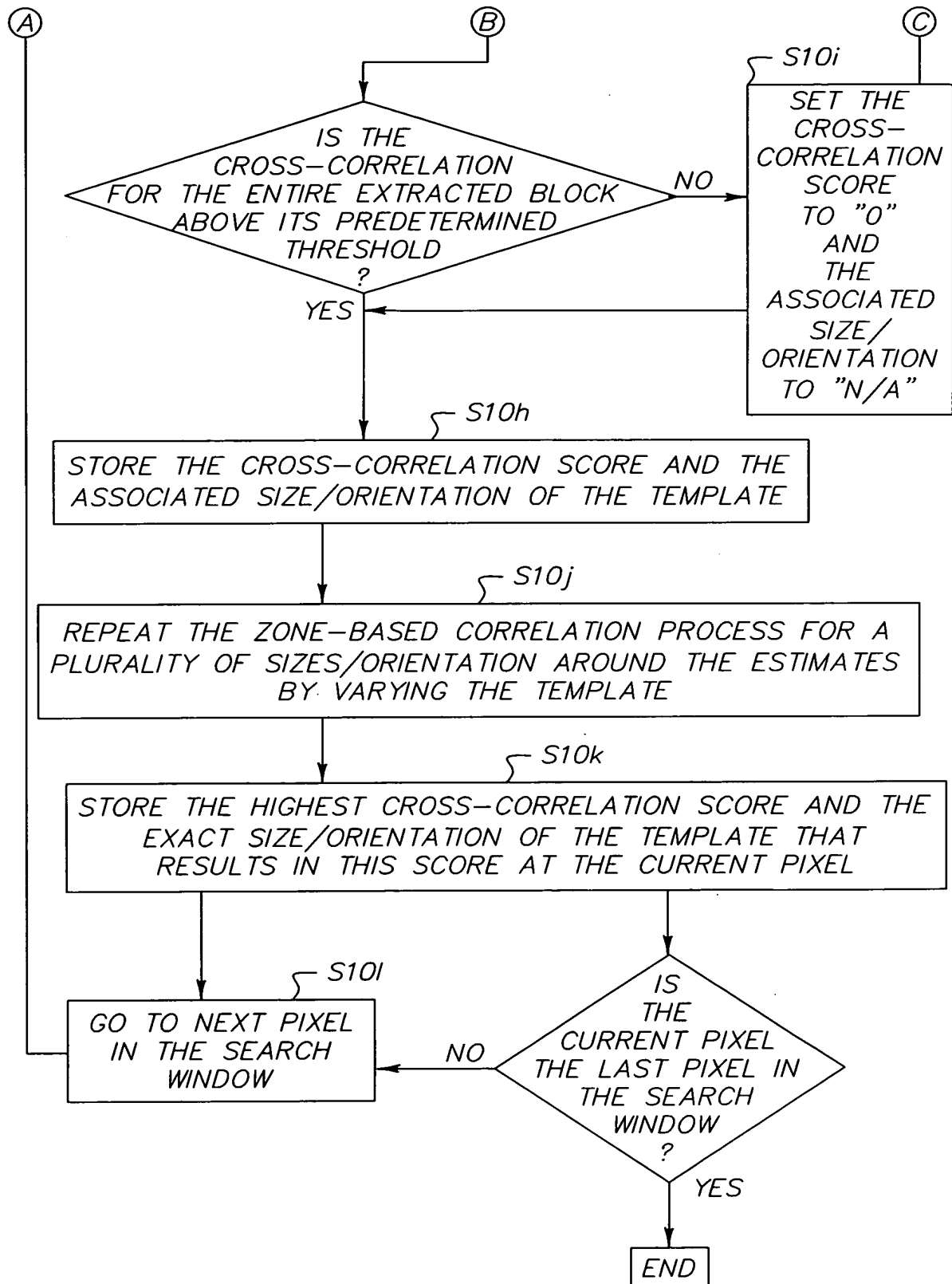
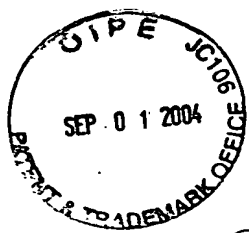


FIG. 7b2

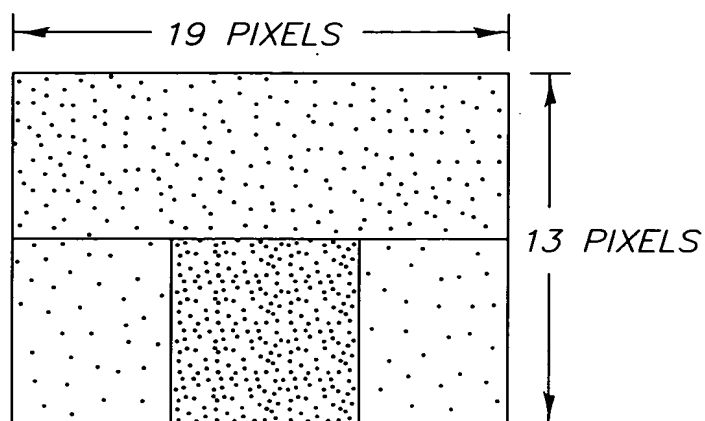
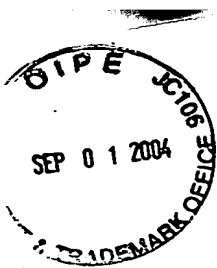


FIG. 8

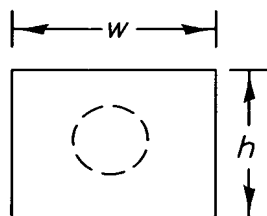
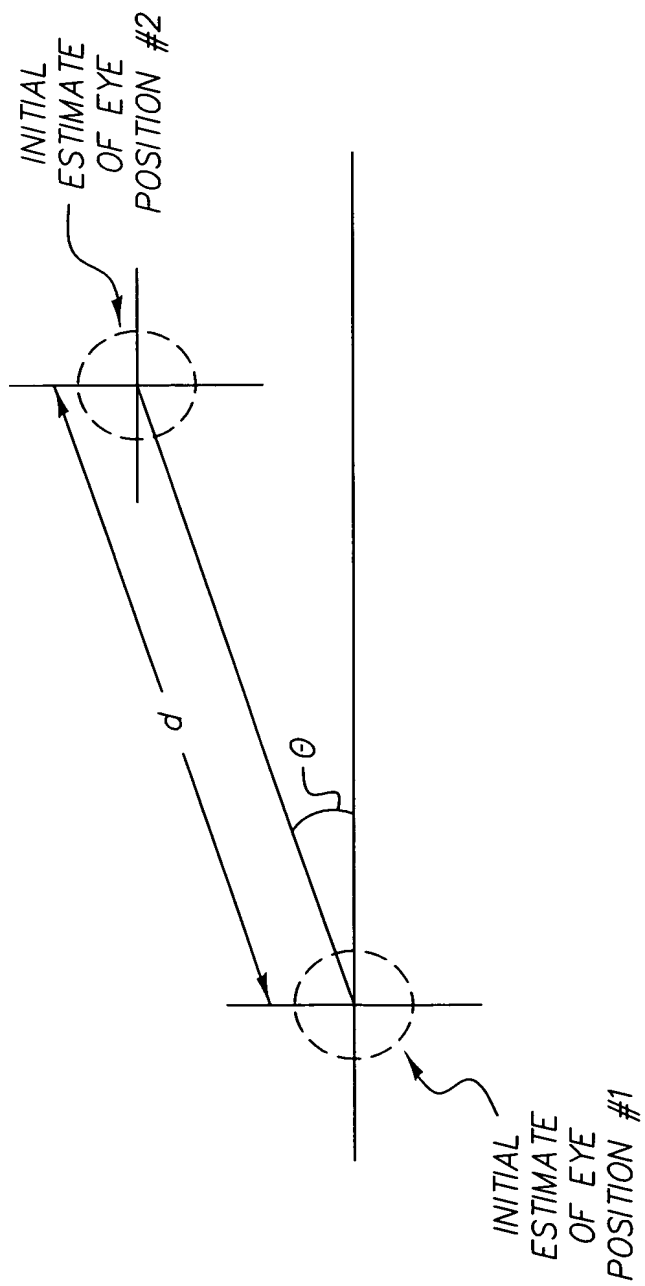


FIG. 10



d : ESTIMATE OF THE DISTANCE BETWEEN THE FIRST AND SECOND OBJECTS

θ : ESTIMATE OF THE ORIENTATION OF THE LINE CONNECTING THE FIRST AND SECOND OBJECTS AND, ASSUMING BOTH THE FIRST AND SECOND OBJECTS ARE EYES AND THEIR MAJOR AXES ARE ALIGNED, ESTIMATE ORIENTATION OF THE FIRST AND SECOND EYES

FIG. 9

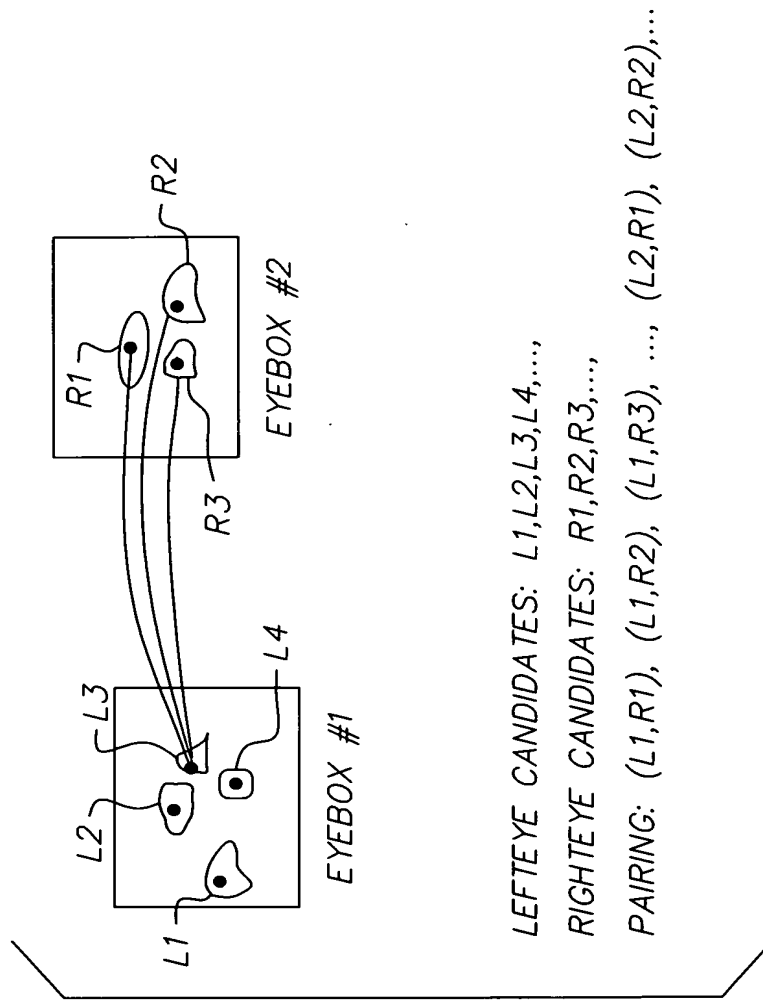
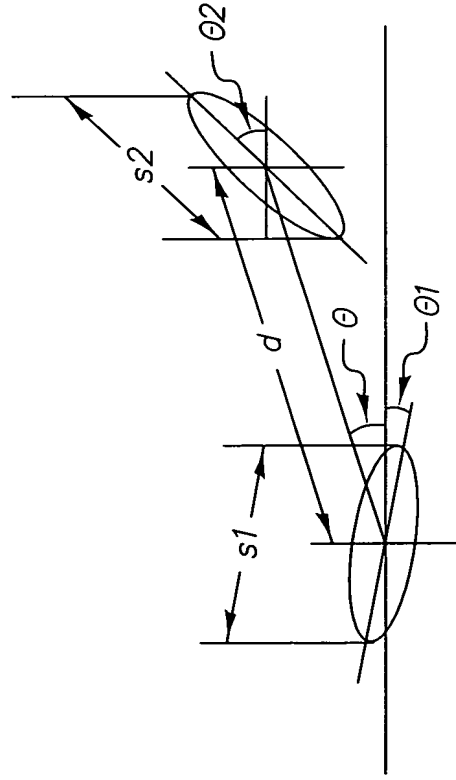


FIG. 11



- θ_1 : ORIENTATION OF THE FIRST OBJECT (IN THIS CASE NEGATIVE)
- θ_2 : ORIENTATION OF THE SECOND OBJECT (IN THIS CASE POSITIVE)
- θ : ORIENTATION OF THE LINE CONNECTING THE CENTERS OF THE FIRST AND SECOND OBJECTS
- d : DISTANCE BETWEEN THE CENTERS OF THE FIRST AND SECOND OBJECTS
- s_1 : SIZE OF THE FIRST OBJECT
- s_2 : SIZE OF THE SECOND OBJECT

FIG. 12

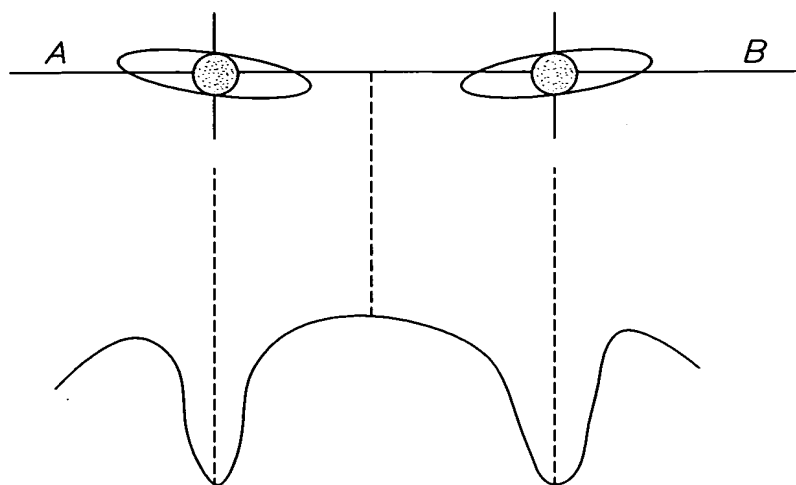
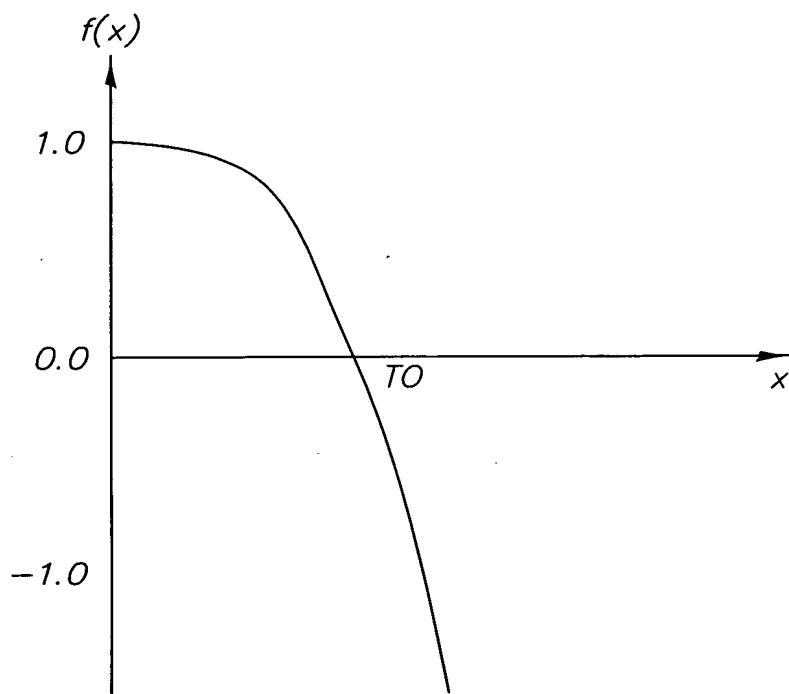


FIG. 13



A PREFERRED SCORING FUNCTION $f(x)$

FIG. 14

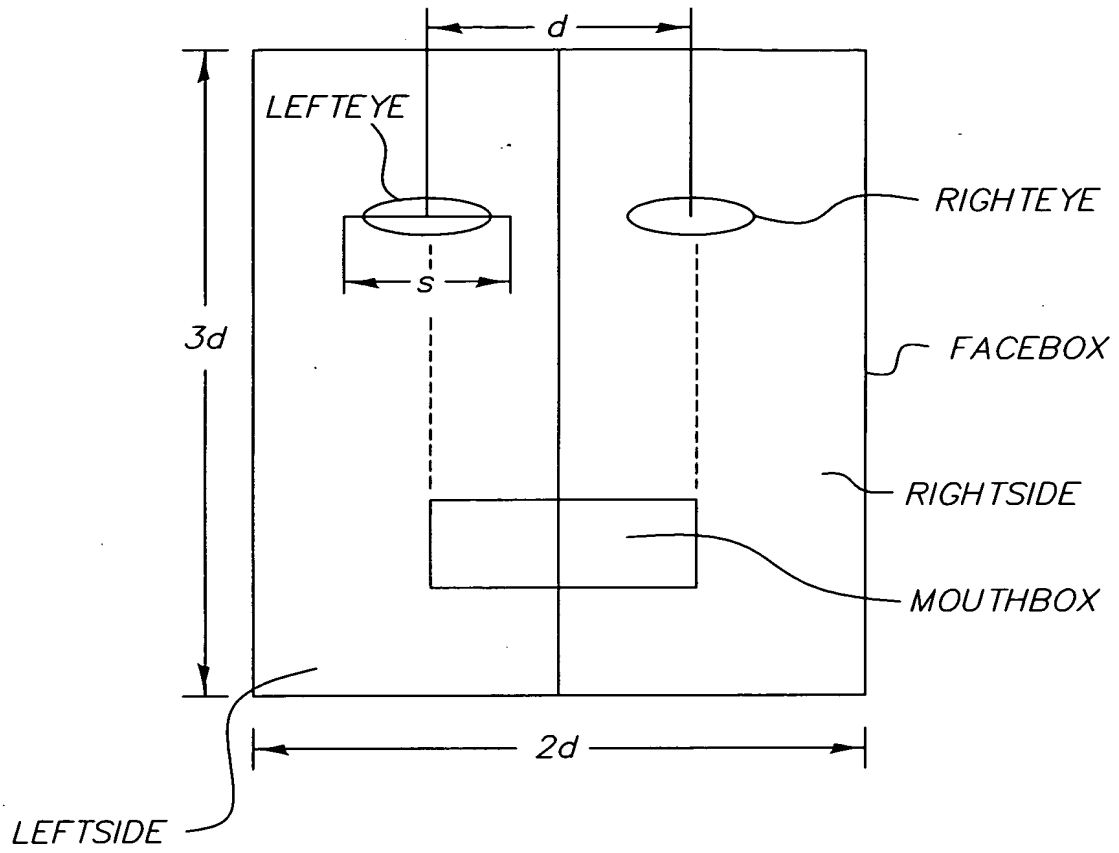


FIG. 15